

Optogenetics - Global Market Outlook (2016-2022)

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Abstracts

According to Statistics MRC, the Global Optogenetics market is expected to reach \$46.82 million by 2022 growing at a CAGR of 17.7%. Optogenetics is the combination of optical and genetic engineering is an emerging field of biotechnology to observe, analyze and organize physiological functions in animal brain. Some of the key drivers of the market include rising usage of optogenetics in neuroscience and behavioural science, recent technological advancements, rising number of labs worldwide that have adopted the technology for research and quick growth of ultrafast laser tools technology. However, lack of awareness and high cost of technology are the factors limiting the market growth. Extensive research on optogenetics is being conducted in the fields of neuroscience, ophthalmology, cardiology, behavioral science and others.

Some of the key players in the global market include Addgene, Cobalt, Inc., Thorlabs, Scientifica, Bruker, Gensight, Regenxbio, Inc., Thomas RECORDING GmbH, Coherent, Inc. and Noldus.

Light Equipment Covered:

Lasers

LEDs

Other Light Equipments

Sensors Covered:

Chloride Sensors

Genetically Encoded Calcium Indicators

Neurotransmitter Release Sensors

pH Sensors

Voltage-Sensitive Fluorescent Proteins

Actuators Covered:

Channelrhodopsin (ChR)

Halorhodopsin (NpHR)

Archaerhodopsin (Arch)

Other Actuators

Targeting Techniques Covered:

Transgenic Animals

Viral Vectors

Cre-Dependant Expression System

Applications Covered:

Behavioral Tracking

Cardioversion and Pacing

Neuroscience

Retinal Disease Treatment

Other Applications

Regions Covered:

North America

US

Canada

Mexico

Europe

Germany

France

Italy

UK

Spain

Rest of Europe

Asia Pacific

Japan

China

India

Australia

New Zealand

Rest of Asia Pacific

Rest of the World

Middle East

Brazil

Argentina

South Africa

Egypt

What our report offers:

Market share assessments for the regional and country level segments

Market share analysis of the top industry players

Strategic recommendations for the new entrants

Market forecasts for a minimum of 6 years of all the mentioned segments, sub segments and the regional markets

Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)

Strategic recommendations in key business segments based on the market estimations

Competitive landscaping mapping the key common trends

Company profiling with detailed strategies, financials, and recent developments

Supply chain trends mapping the latest technological advancements

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